

HVAC ELECTRICAL COORDINATION SCHEDULE

| ABBREVIATIONS | | CONTRACTOR TYPE | | MOTOR CONTROL TYPE | | CONTROL TYPE | | SHORT CIRCUIT RATING | |
|---------------|--|-----------------|----------------------------|--------------------|---------------------------------|--------------|--|----------------------------------|--|
| DC | LOCAL DISCONNECT | EC | ELECTRICAL CONTRACTOR | CS | COMBINATION STARTER | TC | TIMECLOCK | WHERE SHORT CIRCUIT RATING CODE | |
| MC | MOTOR CONTROL (POWER) | EX | EXISTING | MCC | MOTOR CONTROL STARTER | GPT | CONTROL POWER TRANSFORMER | REQUIRED VALUE INDICATES "YES" | |
| SD | DUCT SMOKE DETECTOR | FC | FIRE PROTECTION CONTRACTOR | MCS | MAGNETIC STARTER OR CONTACT | BAS | BUILDING AUTOMATION SYSTEM | APPLICABLE EQUIPMENT'S SHORT | |
| CN | CONTROLS | GC | GENERAL CONTRACTOR | MS | MANUAL STARTER | LV | LOW VOLTAGE CONTROLS | CIRCUIT RATINGS SHALL EXCEED THE | |
| TS | TOGGLE SWITCH | HC | HVAC CONTRACTOR | VFD | VARIABLE FREQUENCY DRIVE | LINE | LINE VOLTAGE CONTROLS | AVAILABLE FAULT CURRENT VALUE | |
| C/B | H.A.C.R. CIRCUIT BREAKER AT SOURCE PANELBOARD | MFR | MANUFACTURER | MSR | MANUAL STARTER W/ CONTROL RELAY | REVERSE | REVERSE ACTING LINE VOLTAGE THERMOSTAT | INDICATED. | |
| FUSE | FUSE AT LOCAL DISCONNECT (VERIFY FIELD RATING) | PL | PLUMBING CONTRACTOR | OV | OVERCURRENT PROTECTION | MAN | MANUAL | | |
| FLA | OPERATING FULL LOAD AMPS | OR | OWNER OR OTHERS | | | FA | FIRE ALARM | | |
| MCA | MINIMUM CIRCUIT AMPACITY | | | | | CO | CARBON MONOXIDE SENSOR | | |
| CP | CORD AND PLUG CONNECTION | | | | | INT | INTERNAL TO EQUIPMENT | | |
| [BLANK] | HARD WIRED (WHEN INDICATED FOR DC TYPE) | | | | | ASD | AREA SMOKE DETECTOR | | |
| | | | | | | DD | DUCT SMOKE DETECTOR | | |

| CONNECTION MARK | DESCRIPTION | VOLTAGE | PHASE | EMERGENCY | HP | WATTS | HTG KW | FLA | MCA | OCF | FED FROM | DC TYPE | DC FURN | DC INST | DC WIRE | MC TYPE | MC FURN | MC INST | MC WIRE | CN TYPE | CN FURN | CN INST | CN WIRE | SHORT CIRCUIT RATING CODE REQUIRED? | AVAILABLE FAULT CURRENT | |
|-----------------|---|---------|-------|-----------|------|-------|--------|------|-------|-----|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------------------------------|-------------------------|------|
| ERU1 | AIR SOURCE HEAT PUMP ENERGY RECOVERY UNIT | 480 V | 3 | NO | | | | | 177.8 | 200 | | | | | | | | | | EX | | | | Yes | 22038 | |
| HEF-6 | HVAC FAN | 480 V | 3 | NO | 0.75 | | | | | | | | EC | EC | EC | MG | | | | MAN | | EC | EC | EC | No | 1843 |
| HP3-26 | WATER SOURCE HEAT PUMP | 480 V | 3 | NO | | | | 8.95 | | | | EX | | | | | | | | EX | | | | Yes | | |
| HP3-27 | WATER SOURCE HEAT PUMP | 480 V | 3 | NO | | | | 8.95 | | | | EX | | | | | | | | EX | | | | Yes | | |

HVAC WATER SOURCE HEAT PUMPS SCHEDULES

Equipment shall be braced and labeled by the equipment manufacturer to withstand the minimum scheduled available fault current value for listed equipment.

| EQUIPMENT MARK | DESCRIPTION | STATUS | WEIGHT (lbs) | MANUFACTURER | MODEL | CFM (cfm) | ESP (in WC) | NOMINAL TONS | ECWV CLG (Deg F) | LCWT CLG (Deg F) | ECWT HTG (Deg F) | LCWT HTG (Deg F) | COND GPM | MAT CLG DB (Deg F) | MAT CLG WB (Deg F) | CLG SENS (mbh) | LAT CLG DB (Deg F) | LAT CLG WB (Deg F) | MAT HTG (Deg F) | HTG (Deg F) | LAT HTG (Deg F) | EMERGENCY | ELECTRIC CONNECTION SUMMARY | AVAILABLE FAULT CURRENT | |
|----------------|------------------------|----------|--------------|--------------|----------|-----------|-------------|--------------|------------------|------------------|------------------|------------------|----------|--------------------|--------------------|----------------|--------------------|--------------------|-----------------|-------------|-----------------|-----------|-----------------------------|-----------------------------|--|
| HP3-26 | WATER SOURCE HEAT PUMP | EXISTING | 0 | TRANE | GEH-0394 | 1200 | 0 | 3 | 88 | 95 | 70 | 60 | 9 | 76 | 64 | 26 | 25 | 50 | 54 | 70 | 7 | 90 | NO | HP3-26 - 480V/3PH, 8.95 MCA | |
| HP3-27 | WATER SOURCE HEAT PUMP | EXISTING | 0 | TRANE | GEH-0394 | 1200 | 0 | 3 | 88 | 95 | 70 | 60 | 9 | 76 | 64 | 32 | 25 | 54 | 70 | 7 | 90 | NO | HP3-27 - 480V/3PH, 8.95 MCA | | |

HVAC ENERGY RECOVERY UNITS SCHEDULE

Equipment shall be braced and labeled by the equipment manufacturer to withstand the minimum scheduled available fault current value for listed equipment.

| EQUIPMENT MARK | DESCRIPTION | STATUS | WEIGHT (lbs) | MANUFACTURER | MODEL | OACFM (cfm) | OA ESP (in WC) | OA BHP (HP) | OA HP (HP) | OA FAN RPM | EA CFM (in WC) | EA ESP (in WC) | EA BHP (HP) | EA HP (HP) | EA FAN RPM | EMERGENCY | ELECTRIC CONNECTION SUMMARY | AVAILABLE FAULT CURRENT |
|----------------|---|--------|--------------|--------------|---------------------|-------------|----------------|-------------|------------|------------|----------------|----------------|-------------|------------|------------|-----------|---------------------------------------|-------------------------|
| ERU-1 | AIR SOURCE HEAT PUMP ENERGY RECOVERY UNIT | NEW | 5480 | VALENT | VXC-212-FH-25A-1-A1 | 6000 | 1 | 5.06 | 7.5 | 1665 | 5400 | .65 | 3.1 | 5 | 1429 | NO | ERU-1 - 480V/3PH, 177.8 MCA, 200A OCP | 22038 |

Energy Recovery Performance

| Design Condition | Outdoor Air | | Supply Air | | Return Air | | Exhaust Air | | Capacity Reduction (BTU/Hr) |
|------------------|-------------|------|------------|------|------------|---------|-------------|------|-----------------------------|
| | DB | WB | DB | WB | DB | WB | DB | WB | |
| Summer | 92.8 | 77.9 | 81.6 | 69.9 | 75.0 | 62.5 | 87.4 | 72.8 | 202,500.0 |
| Winter | 1.0 | -0.6 | 46.0 | 40.3 | 72.0 | 55.7/35 | 22.3 | 20.4 | 291,600.0 |

Cooling Specifications

| Type | Total Capacity (MBH) | Sensible Capacity (MBH) | Coil (DB/WB) | | Reheat |
|----------------------|----------------------|-------------------------|--------------|-------------|----------------|
| | | | EAT (F) | LAT (F) | Capacity (MBH) |
| Air-Source Heat Pump | 332.0 | 190.0 | 81.6 / 69.9 | 52.8 / 52.6 | 111.9 |

Primary Heat Specifications

| Type | Total Capacity (MBH) | Dry Bulb Temperatures | |
|----------------------|----------------------|-----------------------|-------------------------|
| | | EAT (F) | Ambient Outdoor Air (F) |
| Air-Source Heat Pump | 141.3 | 49.3 | 71.1 |

Secondary Heat Specifications

| Type | Capacity (kW) | Full Load Amps (FLA) | Capacity Control | Performance (w/ASHP) | Performance (w/o ASHP) |
|----------|---------------|----------------------|------------------|----------------------|------------------------|
| | | | | EAT (F) | LAT (F) |
| | | | | EAT (F) | LAT (F) |
| Electric | 60.0 | 75.31 | Modulating (SCR) | 71.1 | 102.7 |
| | | | | 46.0 | 77.6 |

HVAC VENTILATION SCHEDULE

| NUMBER | NAME | AREA | LEVEL | PEOPLE | OA PER PERSON | OA PER SQ FT. | REQ SUP | ACT SUP | REQ OA | ACT OA | ACT RET | ACT EXH | CRIT OA | PRESSURE |
|--------|-------------------|---------|---------|--------|---------------|---------------|---------|---------|--------|--------|---------|---------|---------|----------|
| 3330 | STORAGE - 23805 | 160 SF | Level 3 | 1 | 5 | 0.06 | 30 | 300 | 40 | 40 | 300 | 0 | 6.1 | Neutral |
| 3335 | ANTE ROOM - 23806 | 95 SF | Level 3 | 0 | 0 | 0 | 20 | 40 | 5 | 5 | 40 | 0 | 0 | Neutral |
| 3336 | MEETING - 23804 | 149 SF | Level 3 | 8 | 5 | 0.06 | 130 | 300 | 40 | 40 | 300 | 0 | 20.4 | Neutral |
| 3337 | OFFICE (M) - 208 | 102 SF | Level 3 | 1 | 5 | 0.06 | 35 | 200 | 13 | 13 | 200 | 0 | 6.9 | Neutral |
| 3338 | OFFICE (M) - 209 | 95 SF | Level 3 | 1 | 5 | 0.06 | 35 | 200 | 13 | 13 | 200 | 0 | 6.7 | Neutral |
| 3339 | OFFICE (M) - 210 | 89 SF | Level 3 | 1 | 5 | 0.06 | 35 | 200 | 13 | 13 | 200 | 0 | 6.5 | Neutral |
| 3346 | AUTOCLAVE | 142 SF | Level 3 | 4 | 10 | 0.18 | 165 | 165 | 0 | 675 | 0 | 250 | 0 | Negative |
| 3347 | MICROBIOLOGY | 136 SF | Level 3 | 4 | 10 | 0.18 | 95 | 125 | 0 | 84 | 125 | 0 | 0 | Neutral |
| 3430 | MICROBIOLOGY LAB | 338 SF | Level 3 | 4 | 10 | 0.18 | 1075 | 1075 | 0 | 100 | 1075 | 200 | 0 | Negative |
| 3430 | MICROBIOLOGY LAB | 1490 SF | Level 3 | 30 | 10 | 0.18 | 725 | 1050 | 0 | 570 | 1050 | 650 | 0 | Negative |
| TOTAL | | | | | | | 2796 SF | | | | | | | |

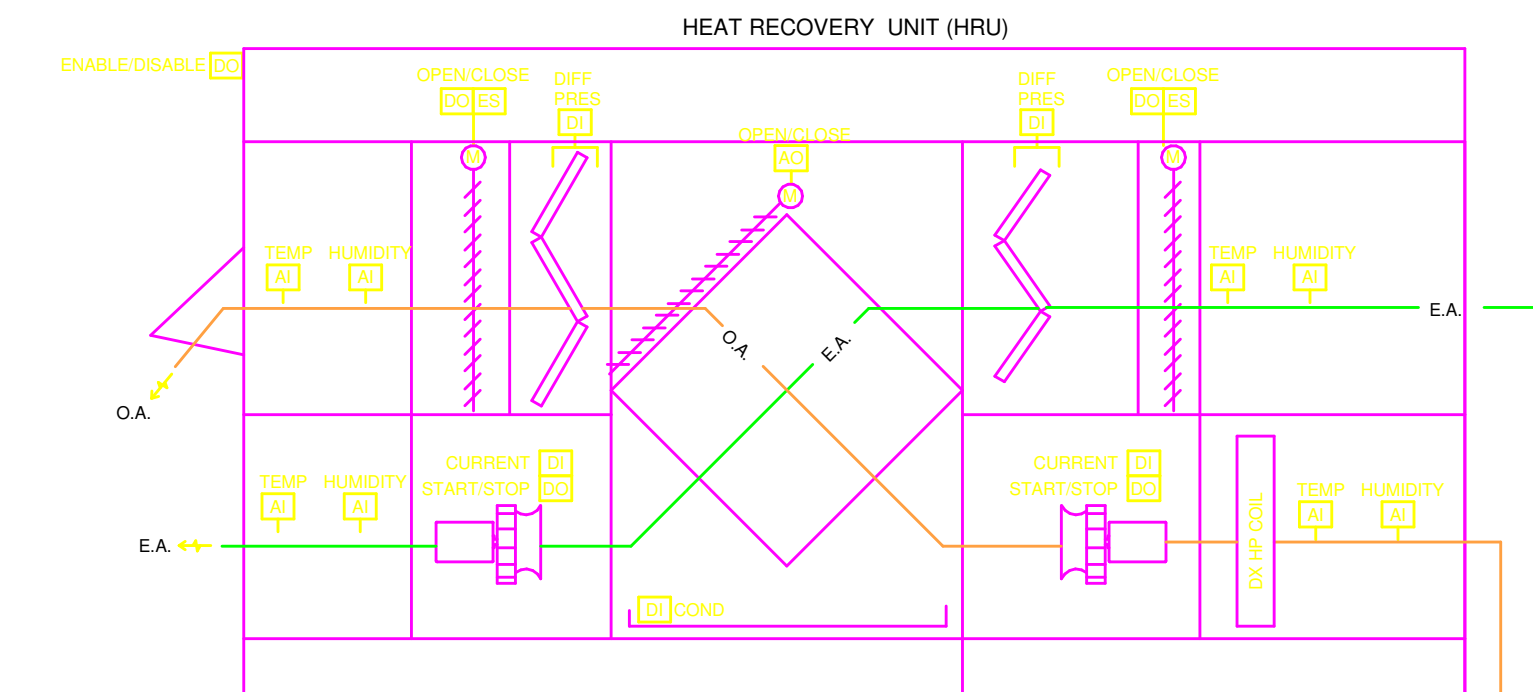
HVAC DIFFUSERS AND REGISTERS SCHEDULE

| TAG | MANUFACTURER | MODEL | Size | MOUNTING | MATERIAL | FINISH | DAMPER TYPE | BORDER STYLE |
|------|--------------|-------|---------|----------|----------|----------------|---------------|-----------------|
| CD-2 | TITUS | OMNI | 8"ø | CEILING | STEEL | STANDARD WHITE | BUTTERFLY | LAY IN MOUNTING |
| CD-5 | TITUS | OMNI | 14"ø | CEILING | STEEL | STANDARD WHITE | BUTTERFLY | LAY IN MOUNTING |
| ER-1 | TITUS | 45F | 12"x12" | CEILING | STEEL | STANDARD WHITE | OPPOSED BLADE | LAY IN MOUNTING |
| ER-2 | TITUS | 45F | 24"x24" | CEILING | STEEL | STANDARD WHITE | OPPOSED BLADE | LAY IN MOUNTING |
| RE-1 | TITUS | 45F | 24"x24" | CEILING | STEEL | STANDARD WHITE | OPPOSED BLADE | LAY IN MOUNTING |
| RG-2 | TITUS | 45F | 24"x24" | CEILING | STEEL | STANDARD WHITE | OPPOSED BLADE | LAY IN MOUNTING |
| RG-3 | TITUS | 45F | 24"x12" | CEILING | STEEL | STANDARD WHITE | (none) | LAY IN MOUNTING |
| SR-2 | TITUS | 271RL | 12"x12" | CEILING | STEEL | STANDARD WHITE | OPPOSED BLADE | (none) |
| SR-3 | TITUS | OMNI | 24"x24" | CEILING | STEEL | STANDARD WHITE | BUTTERFLY | (none) |

HVAC FANS SCHEDULE

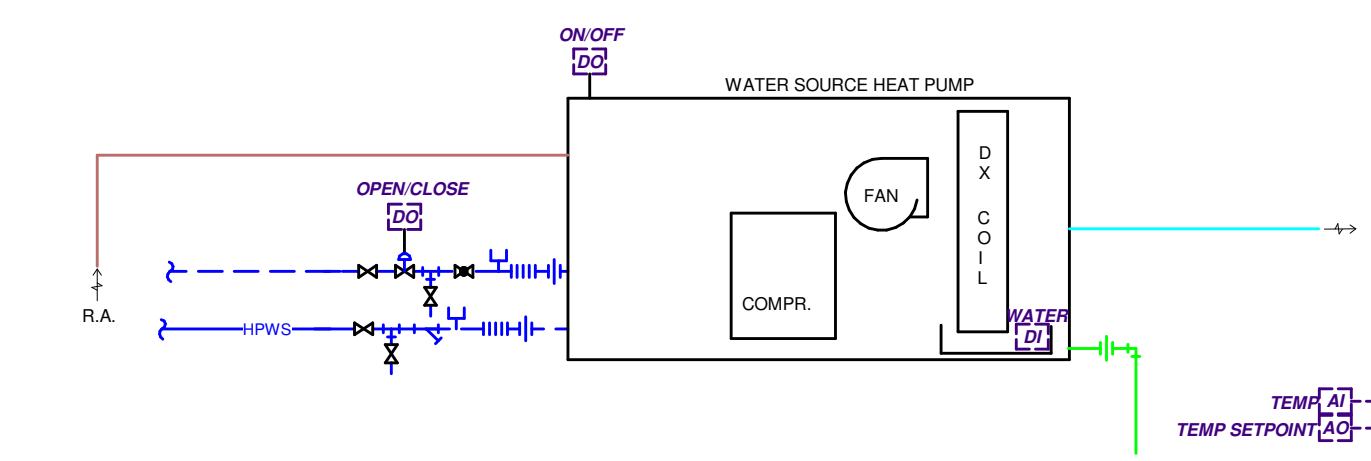
Equipment shall be braced and labeled by the equipment manufacturer to withstand the minimum scheduled available fault current value for listed equipment.

| EQUIPMENT MARK | DESCRIPTION | LOCATION | STATUS | WEIGHT (lbs) | MANUFACTURER | MODEL | CFM | ESP (in WC) | EMERGENCY | ELECTRIC CONNECTION SUMMARY | AVAILABLE FAULT CURRENT |
|----------------|-------------|----------|--------|--------------|--------------|-----------|-----|-------------|-----------|-----------------------------|-------------------------|
| HEF-6 | HVAC FAN | | NEW | 104 | GREENHECK | USF-13-87 | 725 | 1 | NO | HEF-6 - 480V/3PH, 0.75 HP | 1843 |



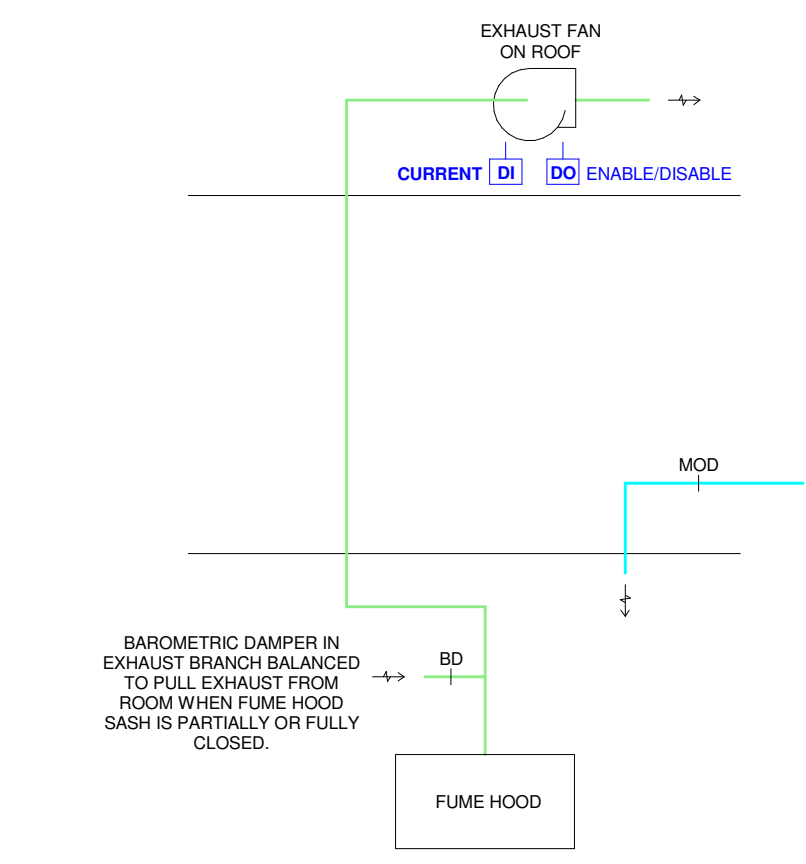
SEQUENCE OF OPERATION

- Heat Recovery Units
 - Interface
 - The heat recovery units are being provided by the heat recovery unit manufacturer with a BACNet open-protocol controller. The BAS Contractor is to interface the data points from the heat recovery controller into the DDC system front-end. Refer to equipment specifications for a listing of the data points required to be available from the heat recovery unit's open-protocol controller. All listed data points are to be interfaced into the DDC system front-end by the BAS Contractor.
 - The BAS Contractor is responsible to coordinate with the heat recovery units' supplier for proper coordination and interfacing of all specified data points, including any and all incidental programming required for proper display/commanding of the data points specified in equipment specification as well as all additional data points listed in this section.
 - The BAS Contractor is to do a point-by-point verification of all read/write points between the heat recovery units and the DDC system. The point-by-point verification is to be done in conjunction with the heat recovery unit equipment supplier. The heat recovery unit equipment supplier is to provide a trained technician to work in conjunction with the BAS Contractor for the point-by-point verification. The data verification only needs to be done on one of each unique type of heat recovery system on the project. The BAS Contractor is to generate a point-by-point verification form for each unique heat recovery system and submit the form(s) to the Engineer for review before proceeding with DDC system interfacing of the balance of the heat recovery units.
 - Startup
 - Electric disconnect switch and circuit breaker shall be in the 'ON' position so that line voltage power is available at the unit. The power switch of the integral controller should be in the 'ON' position.
 - A "Hand-Off-Auto" switch at each of the supply and exhaust fan motor starters permit manual or automatic operation of each fan.
 - In "Auto", the fan is started and stopped by the BAS.
 - In "Hand", the fan is started regardless of the command from the BAS unless a system safety device is activated.
 - When the unit is energized, 24 VAC is supplied to the unit controller. The unit shall continuously operate as controlled by the BAS. If no failures or faults are detected, after 30 seconds, the unit shall commence start-up.
 - Control and Monitoring points shall include but not be limited to:
 - Enable/Disable Heat Recovery Unit (DO)
 - Modes of Operation
 - The ERV shall operate in one of the following modes:
 - Normal Operation
 - Frost Control
 - Off
 - Supply Fan Control
 - The supply fan shall be balanced to the scheduled supply airflow and run continuously at constant speed. Provide current transducer on supply fan motor to prove supply fan motor current.
 - Upon "Enable" signal from the BAS, the exhaust air fan motor operating for a minimum of 1 minute, the outside air damper shall open and be proven open via end switch prior to starting the supply fan motor.
 - During normal operation, the outside air bypass damper shall modulate open to the heat exchanger.
 - Provide a differential pressure sensor across the outside air filter. Alarm BAS when differential pressure exceeds setpoint of 0.5" (adjustable).
 - Control and Monitoring points shall include but not be limited to:
 - Supply fan motor start/stop (DO)
 - Supply fan motor current via current transducer (DI)
 - Outside air damper open/close (DO)
 - Outside air damper open position via end switch (DI)
 - Entering Outside air temperature (AI)
 - Entering Outside air humidity (AI)
 - Leaving Outside air temperature (AI)
 - Leaving Outside air humidity (AI)
 - High condensate level alarm (DI)
 - Outside air bypass damper open/close position (AO)
 - Outside air filter differential pressure (DI)
 - Exhaust Fan Control
 - The exhaust fan shall be balanced to the scheduled exhaust airflow and run continuously at constant speed. Provide current transducer on exhaust fan motor to prove exhaust fan motor current.
 - Upon "Enable" signal from the BAS, the exhaust air damper shall open and be proven open via end switch prior to starting the exhaust fan motor. Exhaust fan motor shall operate for 1 minute prior to enabling the outside air fan motor to purge any condensate from the heat exchanger.
 - Provide a high condensate alarm in the condensate pan. Upon detection of high condensate, the unit shall commence shutdown mode and alarm the BAS of high condensate levels.
 - Provide a differential pressure sensor across the exhaust air filter. Alarm BAS when differential pressure exceeds setpoint of 0.5" (adjustable).
 - Control and Monitoring points shall include but not be limited to:
 - Exhaust fan motor start/stop (DO)
 - Exhaust fan motor current via current transducer (DI)
 - Exhaust air damper open/close (DO)
 - Exhaust air damper open position via end switch (DI)
 - Entering Exhaust air temperature (AI)
 - Entering Exhaust air humidity (AI)
 - Leaving Exhaust air temperature (AI)
 - Leaving Exhaust air humidity (AI)
 - High condensate level alarm (DI)
 - Exhaust air filter differential pressure (DI)
 - Supply Air Temperature Setpoint
 - The supply air temperature setpoint shall be set 55 degrees F (adjustable).
 - All setpoints shall be adjustable through the FMS.
 - Control points to maintain condition comfort.
 - Economizer Control
 - Economizer control shall be enabled whenever the outside air enthalpy is lower than the return air enthalpy. Enthalpy shall be calculated from sensors which are tied to the same controller for accuracy. During economizer mode, the energy recovery wheel shall be modulated off, the supply fan and exhaust fan are on.
 - Cooling/Heating Control
 - Cooling and heating shall be controlled based on leaving enthalpy wheel supply temperature whenever the system fans are proven on. If the economizer mode is disabled, enable the enthalpy wheel and compressor. When the leaving enthalpy wheel supply temperature drifts from setpoint and the enthalpy wheel is at full speed, modulate the compressor to maintain leaving supply air temperature setpoint. Control the reversing valve to provide heating or cooling as needed.
 - Compressor start/stop (AO)
 - Compressor capacity status (AI)
 - Compressor reversing valve (DO)
 - Frost Control
 - To prevent frost or ice build up on the heat exchanger, the face and bypass damper position shall modulate and bypass outside air around the heat exchanger.
 - When the discharge exhaust air temperature is at or below 40 deg. F (adjustable), the outside air bypass damper shall modulate open and bypass outside air around the heat exchanger.
 - Control and Monitoring points shall include but not be limited to:
 - Exhaust air discharge temperature (AI)
 - Outdoor air bypass damper open/close position (AO)
 - Shutdown
 - At shutdown, the unit shall go into fail safe position. Fail safe position is defined by the following: the outside air and exhaust fan motors are off, the outside air and exhaust dampers are closed and the outside air bypass damper shall be closed to the heat exchanger.
 - BAS Alarms
 - The BAS shall generate an alarm whenever the following conditions occur:
 - The outside air fan motor is commanded on but fails to run (fan motor's current transducer indicates the fan motor is off for more than 60 seconds).
 - The outside air fan motor is commanded off but continues to run (fan motor's current transducer indicates the fan motor is off for more than 60 seconds).
 - The exhaust fan motor is commanded on but fails to run (fan motor's current transducer indicates the fan motor is off for more than 60 seconds).
 - The exhaust fan motor is commanded off but continues to run (fan motor's current transducer indicates the fan is running for more than 60 seconds).
 - The leaving outside air temperature is less than 40 degrees F or greater than 90 degrees F for more than 15 minutes.
 - The leaving outside air humidity is less than 5% RH or greater than 95% RH for more than 60 minutes.
 - The entering exhaust air temperature is less than 50 degrees F or greater than 80 degrees F for more than 15 minutes.
 - The entering exhaust air humidity is less than 10% RH or greater than 70% RH.
 - The leaving exhaust air temperature is below 35 degrees F for more than 15 minutes.
 - The pressure drop across the outside air filter exceeds setpoint of 1.0" WC (adjustable).
 - The pressure drop across the exhaust air filter exceeds setpoint of 1.0" WC (adjustable).
 - The outside air damper is commanded open but fails to open in less than 90 seconds.
 - The exhaust air damper is commanded open but fails to open in less than 90 seconds.
 - The high condensate sensor senses high water in the condensate pan.
 - The return air temperature is less than 50 degrees F or greater than 80 degrees F for more than 15 minutes.
 - The return air humidity is less than 10% RH or greater than 70% RH.



SEQUENCE OF OPERATION

- Guest Room Water Source Heat Pump Systems
 - Interface
 - The water-source heat pump controllers shall be furnished to the water source heat pump manufacturer and be installed by the water source heat pump manufacturer. The thermostats shall be furnished by the EMS contractor and installed and wired by the mechanical contractor. The BAS Contractor has no scope pertaining to the guest room heat pumps.
 - The EMS system contractor is responsible to coordinate with the heat pump supplier for proper coordination and interfacing of all specified data points, including any and all incidental programming required for proper display/commanding of the data points specified in equipment spec as well as all additional data points listed in this section.
 - The EMS Contractor is to do a point-by-point verification of all read/write points between the heat pumps and the DDC system. The point-by-point verification is to be done in conjunction with the heat pump equipment supplier. The heat pump equipment supplier is to provide a trained technician to work in conjunction with the EMS contractor for the point-by-point verification. The data verification only needs to be done on one of each unique type of heat pump on the project. The EMS contractor is to generate a point-by-point verification form for each unique heat pump and submit the form(s) to the Engineer for review before proceeding with EMS interfacing of the balance of the heat pumps.
 - Startup
 - The unit shall operate on an occupied/unoccupied cycle as controlled from the EMS. Occupancy shall be predetermined by and programmed into the EMS.
 - Provide a 5 minute (adjustable) time delay on compressor start during unoccupied mode to insure flow.
 - Supply Fan Control
 - The supply fan speed shall be constant and set to the required CFM.
 - Space Temperature Control
 - EMS Contractor shall provide local wall mounted room temperature sensor with display of room 1 temperature and setpoint (+/- 3 deg. F, adjustable from setpoint determined by EMS) and local occupant override feature (3 hours, adjustable thru EMS). Water source heat pump heating and cooling shall be controlled to maintain space temperature setpoint.
 - Cooling Control
 - Cooling shall be controlled to maintain space temperature setpoint. On a call for cooling, the supply fan motor shall start, the 2-way heat pump water control valve shall open, the reversing valve shall move to the cooling position and compressor(s) shall be staged on.
 - Heating Control
 - Heating shall be controlled to maintain space temperature setpoint. On a call for heating, the supply fan motor shall start, the 2-way heat pump water control valve shall open, the reversing valve(s) shall move to the heating position and compressor(s) shall be staged on.
 - Restart
 - Provide automatic restart of system upon failure for 2 attempts (adjustable)
 - After 2 attempts, alarm system and require manual reset.
 - Condensate Overflow
 - Provide a high condensate sensor in the condensate pan. Upon detection of high condensate in the condensate pan, shut down water source heat pump and alarm the EMS.
 - Unoccupied Mode
 - During the unoccupied mode of operation, the heat pump shall go into night setback.
 - Night Setback/Shut Down
 - At night setback/shutdown the heat pump shall go to fail safe position. Fail safe position is defined by the following: The supply fan is off, the compressor(s) are off. The supply fan shall cycle in conjunction with either the heating or cooling system to maintain a minimum/maximum space temperature depending on the season.



SEQUENCE OF OPERATION

- FUME HOOD EXHAUST
 - The fume hood exhaust fan shall be manually controlled at the hood. When hood is in on position, fan shall energize.
 - Outside air into space

